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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AKK-0066-PCT		FOR FURTHER ACTION	RTHER ACTION See Form PCT/IPEA/416		
International application No.		International filing date (day/m	onth/year)	Priority date (day/month/year)	
PCT/JP2004/005839		30.04.2004		09.07.2003	
International P	atent Classification (IPC) or nat	ional classification and IPC			
B41C1/	B41C1/18, B41C1/05				
Applicant ASAHI KASEI CHEMICALS CORPORATION					
		minary examination report, estal ne applicant according to Article		nternational Preliminary Examining Authority	
2. This	REPORT consists of a total of	7	sheets, including	this cover sheet.	
3. This	report is also accompanied by A	NNEXES, comprising:			
a. [(sent to the applicant and	to the International Bureau) a to	otal of	sheets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental				
. r	Box.				
b. [(sent to the International	Bureau only) a total of (indicate	type and number	of electronic carrier(s))	
	related thereto, in compute	r madable form only as indicate	ed in the Simples	_, containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see	
	Section 802 of the Adminis		a in the Supple	mental Box relating to dequetee Storing (cor	
4. This	report contains indications relati	ng to the following items:			
	Box No. I Basis of the	report			
	Box No. II Priority				
	Box No. III Non-estable	shment of opinion with regard to	novelty, inventi	ive step and industrial applicability	
	Box No. IV Lack of uni	ty of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international a			on		
Box No. VIII Certain observations on the international application					
Date of submission of the demand		Date of o	Date of completion of this report		
Name and mailing address of the IPEA/JP			ed officer		
Facsimile No.		Telepho	ne No		
I acsimule IVO.		Telephoi	IIV 17U.		

International application No.
PCT/JP2004/005839

Box	No. I	Basis of the report				
1.		n regard to the language, this report is based on the internation cated under this item.	al application in the language in which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:					
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4)				
		international preliminary examination (Rule 55.2 and/o				
2.	recei	h regard to the elements of the international application, this reviving Office in response to an invitation under Article 14 are report): the international application as originally filed/furnished	report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to			
		the description:				
	-	pages	as originally filed/furnished			
		pages*				
		pages*				
		the claims:				
	-	nos.	as originally filed/furnished			
		nos.*	as amended (together with any statement) under Article 19			
		nos.*	received by this Authority on			
		nos.*	received by this Authority on			
		the drawings:				
		sheets	as originally filed/furnished			
		sheets*	received by this Authority on			
		sheets*	received by this Authority on			
		a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:				
	_	the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
i		any table(s) related to sequence listing (specify):				
4.		This report has been established as if (some of) the amendathey have been considered to go beyond the disclosure as file	ments annexed to this report and listed below had not been made, since ed, as indicated in the Supplemental Box (Rule 70.2(c)).			
		the description, pages				
		the claims, nos.				
		the sequence listing (specify):				
*	If its	em 4 applies, some or all of those sheets may be marked "supe	rseded."			

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Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims	1-26	_ YES	
		Claims		_ NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-26	_ NO	
	Industrial applicability (IA)	Claims	1-26	_ YES	
		Claims		_ NO	

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 2002-79645 A (Asahi Kasei Corp.), 19
 March 2002
 - Document 2: JP 60-21214 A (Rheon Automatic Machinery Co., Ltd.), 2 February 1985
 - Document 3: JP 2001-179928 A (Asahi Kasei Corp.), 3 July 2001
 - Document 4: JP 54-121805 A (Dainippon Printing Co., Ltd.), 21 September 1979
 - Claims 1, 4 and 5, 7, 9, 12, 14, and 15

The invention set forth in claims 1, 4 and 5, 7, 9, 12, 14, and 15 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

The inventions disclosed in document 1 and document 2 belong to closely related technical fields in that each displays a feature wherein a cylindrical body is coated with a fluid, and thus, a person skilled in the art could easily conceive of using the procedure wherein a resin in liquid form is supplied to upper portion of a piece being processed, and the tip of a blade on a resin-receiving plate is used to mold the supplied liquid resin to a

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

specified coating thickness on the outer circumference of the piece being processed, disclosed in document 2, in place of the coating procedure for supplying a photosensitive resin in liquid form, disclosed in document 1.

Here, the decision as to whether to supply the liquid resin to the resin-receiving plate or directly to the piece being processed is recognized as a feature fittingly determined at the discretion of a person skilled in the art, and moreover, no exceptional difference in working or effect is recognized as arising from that simple difference; therefore, supplying the liquid resin above the resin-receiving plate is nothing more than a simple design adaptation for a person skilled in the art.

Further, document 1 (paragraph [0027]) indicates that the ultraviolet rays in the exposure procedure have a wavelength in the 200 to 400 nm range, and the intensity of said ultraviolet rays and the viscosity of the liquid photosensitive resin are merely features fittingly determined by a person skilled in the art.

Claims 2 and 3

The invention set forth in claims 2 and 3 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 2 (page 2, lower left column, line 16 to lower right column, line 14) discloses a feature wherein the resin-receiving plate has a resin flow-preventing ridge and a feature wherein the surface of the cured resin layer is shaped, and no exceptional technical significance is recognized in simply making the resin

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flow-preventing ridge movable in the axial direction of a piece being processed.

Claim 6

The invention set forth in claim 6 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 2 (page 3, upper left column, lines 6 to 10) discloses a feature wherein a desired thickness of the liquid resin is applied to the outer circumference of a piece being processed as the gap between the tip of the blade on the resin receiving-plate and the outer circumference of the piece being processed is gradually widened.

Claims 8, 10, and 11

The invention set forth in claims 8, 10, and 11 does not involve an inventive step in the light of document 1 and 2 cited in the international search report.

The removal of resin from an area not needed as a printing plate is merely a feature fittingly determined by a person skilled in the art.

Claim 13

The invention set forth in claim 13 does not involve an inventive step in the light of documents 1, 2, and 3 cited in the international search report.

Document 3 (paragraph [0033]) discloses a latter exposure procedure wherein, after a cleaning procedure, ultraviolet rays are irradiated onto a relief image layer on the outer circumference of a piece being processed while said piece is rotated.

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims 16 and 17, claims 19 to 26

The invention set forth in claims 16 and 17 and claims 19 to 26 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

A person skilled in the art could easily conceive of using the resin supply mechanism equipped with a resin supply nozzle and the resin coating smoothing mechanism having a resin-receiving plate with a scalpel-shaped tip and positioned opposite a piece being processed, disclosed in document 2, in place of the photosensitive resin fluid supply mechanism disclosed in document 1.

Claim 18

The invention set forth in claim 18 does not involve an inventive step in the light of documents 1, 2, and 4 cited in the international search report.

Document 4 (page 4, lower right column, lines 15 to 18) discloses a feature wherein a holding block for a processing tool can be linearly moved in the axial direction of a piece being processed.

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Box No.	VI Certain documents cited				
l. Cer	rtain published documents (Rule 70.10)				
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)	
	JP 2003-241397 A	27.08.2003	22.02.2002		
	[PX]				
2. No	on-written disclosures (Rule 70.9)				
	Kind of non-written disclosure	Date of non-written dis (day/month/year	sclosure referrin	e of written disclosure g to non-written disclosure (day/month/year)	